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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/567,503	02/07/2006	Enea Garagnani	MI 6125 (US)	8964	
34872 7	590 11/02/2006		EXAM	INER	
BASELL USA INC. INTELLECTUAL PROPERTY			CHOI, LING SIU		
912 APPLETO		•	ART UNIT	PAPER NUMBER	
ELKTON, MI	21921	•	1713		
			DATE MAILED: 11/02/2006	DATE MAILED: 11/02/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

·	Application No.	Applicant(s)
	10/567,503	GARAGNANI ET AL.
Office Action Summary	Examiner	Art Unit
	Ling-Siu Choi	1713
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period varieties to reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (D) (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 07 Fe	ebruary 2006.	
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.	·
3) Since this application is in condition for allowar		
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.
Disposition of Claims		
4) Claim(s) 8-14 is/are pending in the application.		
4a) Of the above claim(s) is/are withdraw	wn from consideration.	
5) Claim(s) is/are allowed.	•	
6) Claim(s) <u>8-14</u> is/are rejected.		
7) Claim(s) is/are objected to.	r alastian requirement	
8) Claim(s) are subject to restriction and/o	r election requirement.	
Application Papers		
9)☐ The specification is objected to by the Examine	r.	,
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	Examiner.
Applicant may not request that any objection to the	•	
Replacement drawing sheet(s) including the correct		
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Onice	ACTION OF IOTH PTO-152.
Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:	a bawa basa wasatiwad	
1. Certified copies of the priority documents2. Certified copies of the priority documents		ion No
3. ☐ Copies of the certified copies of the prior	• •	
application from the International Bureau	_	
* See the attached detailed Office action for a list	of the certified copies not receive	ed.
		,
Attachment(s)		
1) Motice of References Cited (PTO-892)	4) Interview Summary	
2)	Paper No(s)/Mail Da 5) Notice of Informal F	
Paper No(s)/Mail Date <u>6/12/2006</u> .	6) Other:	•

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DETAILED ACTION

1. This Office Action is in response to the Preliminary Amendment filed February 7, 2006. Claims 1-7 was canceled and Claims 8-14 have been added. Claims 8-14 are now pending, wherein Claims 8-11 are drawn to a polyolefin composition; Claim 12 is drawn to a process to prepare the polyolefin composition; Claims 13-14 are drawn to articles. And Claim 8 is an independent one.

Claim Objections

 Claim 12 is objected to because of the following informalities: Claim 12, line 6, "polymer ad the partially" suggested to be changed to --polymer and the partially--.
 Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claim 9, line 2-3, "0.5 to 3 parts by weight of mineral fillers" causes indefiniteness because there is no base to cite such amount.

Claim Analysis

5. Summary of Claim 8:

A polyolefin composition comprising			
Α	60-85 wt%	a broad molecular weight distribution propylene polymer having	
		a polydispersity index = 5-15	
		a melt flow rate =20-78 g/10 min [ASTM-D 1238, condition L]	
В	15-40 wt%	a partially xylene soluble olefin polymer rubber comprising	
		at least 65 wt% of ethylene	

Summary of Claim 12:

A process to prepare the polyolefin composition of Claim 8,

wherein the monomers are polymerized in the presence of
 stereospecific catalyst supported on active magnesium halide
 in active form in at least three sequential steps

wherein components A and B are prepared in separate subsequent steps,
 operating in each step in the presence of the polymer formed and
 the catalyst used in the immediately preceding step

Claim Rejections - 35 USC § 102

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6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 8-11 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by DeNicola, Jr. et al. (US 5,286,791).

DeNicola, Jr. et al. disclose an impact-modified graft copolymer composition to be used in an inject molding to make an article, comprising (A) 10-90 wt% of graft copolymer, (B) 90-10 wt% of at least one propylene polymer having a wide molecular weight distribution, and (C) 2-40 wt% of at least one rubber component, wherein the component B has a molecular weight distribution of 8-60 and a melt flow rate of 0.5-50 g/10 min; the component C can be an ethylene-propylene copolymer rubber having 30-70% ethylene content (abstract; col. 4, lines 25-31; col. 7, lines 33, 46-48, and 62-63; Examples 1-5-especially line 9; claims 1 and 4). DeNicola, Jr. also disclose that the composition further comprises about 10-100 pph of a filler which can be talc, a calcium carbonate, and silicate (col. 3, lines 25-32; col. 10, lines 36-43). It is noted that the ethylene-propylene copolymer rubber reads on the partially xylene soluble olefin polymer rubber.

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8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

9. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over DeNicola, Jr. et al. (US 5,286,791).

DeNicola, Jr. et al. disclose a process to prepare a broad-molecular-weight-distribution polypropylene by a sequential polymerization in at least two stages in the presence of a Ziegler-Natta catalyst comprising a titanium compound supported on a magesium halide in active form, an Al-alkyl compound, and an external electron-donor compound, the polymerization operating in separate and consecutive stages with each stage having the presence of the polymer and the catalyst coming from the preceding stage (col. 4, lines 38-43; col. 6, lines 66-68; col. 7, lines 1-3).

The difference between the present claim and the disclosure of DeNicola, Jr. is the requirement of the broad molecular weight distribution propylene polymer and the partially xylene soluble olefin polymer rubber being prepared in <u>separate subsequent</u> steps.

It is noted that the polymerization of polymer in at least two separate and consecutive stages results in a broad molecular weight distribution polymer. It is obvious to have both polypropylene and the ethylene-propylene copolymer rubber being carried out in the separate subsequent steps to obtain the composition with the

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expected success because DeNicola Jr. do teach such process.

10. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over DeNicola, Jr. et al. (US 5,286,791) in view of Herman (US 5,174,384).

DeNicola, Jr. et al. disclose an article obtained by inject molding of an impact-modified graft copolymer composition comprising (A) 10-90 wt% of graft copolymer, (B) 90-10 wt% of at least one propylene polymer having a molecular weight distribution of 8-60 and a melt flow rate of 0.5-50 g/10 min, and (C) 2-40 wt% of at least one ethylene-propylene copolymer rubber having 30-70% ethylene content, which reads on the partially xylene soluble olefin polymer rubber (abstract; col. 4, lines 25-31; col. 7, lines 33, 46-48, and 62-63; Examples 1-5-especially line 9; claims 1 and 4).

The difference between the present claim and the disclosure of DeNicola, Jr. et al. is the requirement of the article to be a bumper which comprises the impact-modified graft copolymer composition in the present claim.

Herman discloses a pumper comprising a synthetic, ozone resistant, non-acid forming, extruded rubber lining (col. 9, lines 56-61). DeNicola, Jr. et al. disclose that the composition has improved impact/stiffness balance without a substantial loss in modulus (col. 2, lines 66-68; col. 3, lines 1-8). In light of such benefit, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the composition disclosed by DeNicola, Jr. et al. in the bumper and thereby obtain the present invention.

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Conclusion

11. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure: Huff (US 4,221,882).

Huff discloses a blend comprising polypropylene, at least about 30%

polyethylene, and from about 4 to about 11% ethylene-propylene copolymer rubber,

wherein the polypropylene has a melt flow rate of from about 0.3 to about 35 g/10 min at

230°C and 2,160 g load (abstract; col. 5, lines 31-35; claim 1). And Huff is silent on the

molecular weight distribution of the polypropylene. Accordingly, Huff does not teach or

fairly suggest the claimed composition.

12. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-

1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wu, can be reach on 571-272-1114.

Licella"

LING-SUI CHOI PRIMARY EXAMINER

October 25, 2006